Programming Assignment 4

Ryan Webb

Matthew Deffenbaugh

7/25/2013

C202/I211

The Parse program in Personal assignment 4 has multiple jobs it must fulfill. First it creates a dictionary array of 26 Linked List’s for every letter. Once this is completed it imports random\_dictionary.txt to use as its dictionary for later use in the spellchecker. The program changes every dictionary word to lower case before it stores the value to make spellcheck comparisons less complex. Once the dictionary is filled it reads oliver.txt. When reading oliver.txt it reads the first character in the word, converts it to lowercase, and also checks to make sure it is not whitespace or an invalid character that is not a word. Once it passes these checks it uses the first letter in the word to check the dictionary linked list and uses the contains method to check if the dictionary contains the word being used. If the comparison is found it increments the doubles found by 1 and compsFound by how many comparisons it made to get to that word. If the comparison is not found, the program will increment the doubles notFound by 1 and compsNotFound by how many comparisons it made. Once it finishes these operations it then prints found and compsFound and then prints the quotient of found and compsFound then prints notFound and compsNotFound. These are printed to test and see if the spellchecker is accurately spellchecking the document.